

Rectangular duct fans

Rectangular duct fans



KT, KT(I)

- Swing-out
- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Maintenance-free and reliable

The KT models have impellers with forward-curved blades and external rotor motors. The motor and impeller are mounted on the access cover to facilitate easy maintenance. The casing is manufactured from galvanised sheet steel. To protect the motor from overheating the fans have integral thermal contacts with external leads for connection to a motor protection device. The fans can be installed in any position and are simple to couple using DS flexible connections. The KT fans have a pre-wired, integral terminal box.

KT(I) versions have double skin side panels, manufactured from galvanised steel with 25 mm mineral wool insulation.

ELECTRICAL ACCESSORIES



STDT p. 342

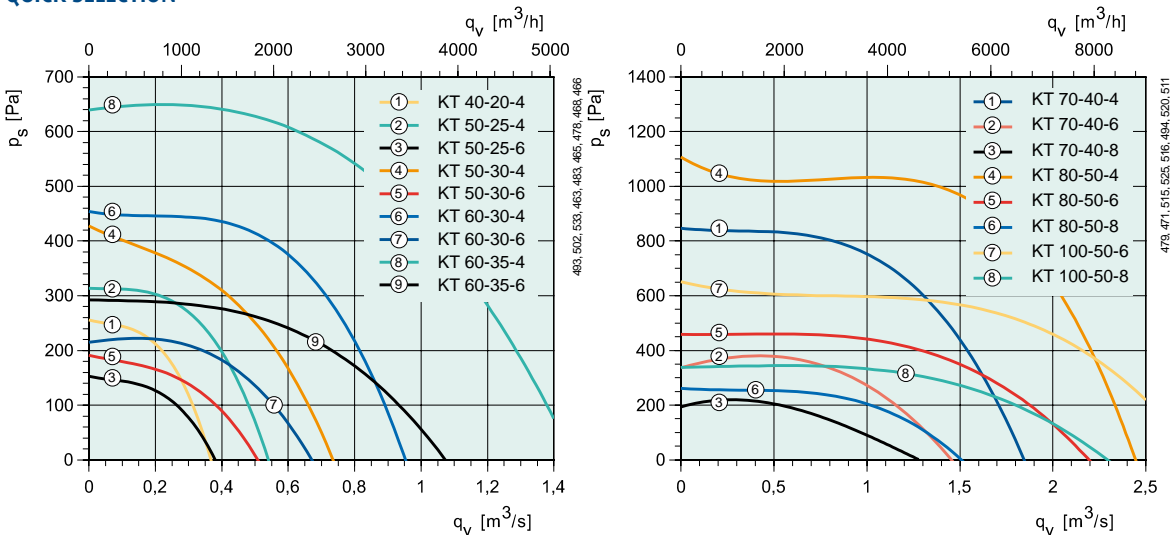


RTRD p. 321



RTRDU p. 321

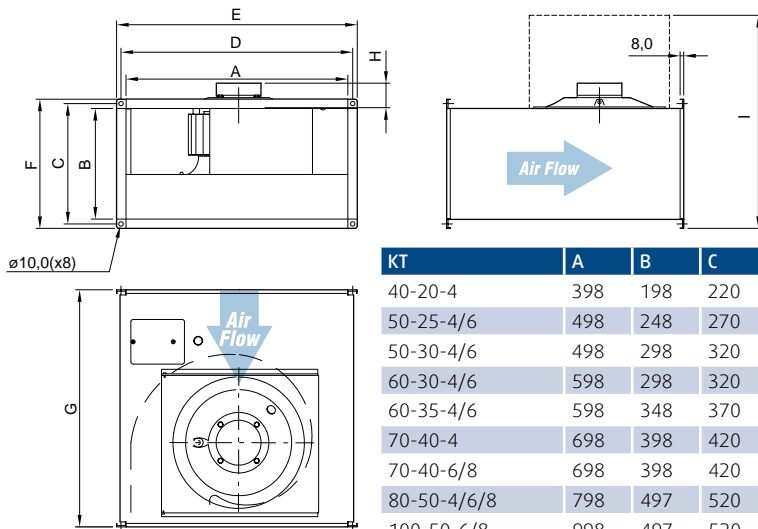
QUICK SELECTION



TECHNICAL DATA

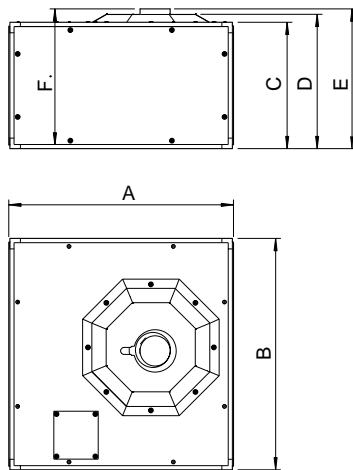
KT		40-20-4	50-25-4	50-25-6	50-30-4	50-30-6	60-30-4	60-30-6	60-35-4	60-35-6
Art no. KT		1482	1487	1485	1489	1491	1494	1493	1499	1497
Art no. KT(I)		68561	68563	-	68567	68568	68571	68572	68575	68574
Voltage/Frequency	V/50 Hz	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~
Power	W	289	565	220	935	330	1362	418	2478	935
Current	A	0.519	0.969	0.44	1.64	0.66	2.36	0.855	4.15	1.84
Max air flow	m³/s	0.368	0.544	0.381	0.72	0.509	0.953	0.598	1.32	1.08
R.p.m.	min ⁻¹	1303	1287	826	1223	804	1279	837	1244	777
Max temp. of transported air	°C	63.4	66.3	70	41	49.9	62.5	39.9	42.3	44.3
“ when speed controlled	°C	63.4	51.3	70	41	49.9	62.5	39.9	42.3	44.3
Sound pressure level at 3 m	dB(A)	52/49	55/50	44	57/53	51/48	58/55	48/43	61/58	52.5/48
Weight KT/KT(I)	kg	13.5/25	18.5/32	17.5	23/23	21.5/36	33.2/36	26.5/36	40.5/61	34.5/40
Insulation class, motor		B	F	B	F	F	F	F	F	F
Enclosure class, motor		IP 44	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Motor protection		STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16
Speed control, five-step	Transformer	RTRD 2	RTRD 2	RTRD 2	RTRD 2	RTRD 2	RTRD 4	RTRD 2	RTRD 7	RTRD 2
Speed control, five step high/low	Transformer	RTRDU 2	RTRDU 2	RTRDU 2	RTRDU 2	RTRDU 2	RTRDU 4	RTRDU 2	RTRDU 7	RTRDU 2
Wiring diagram p. 391-400		7	8	8	8	8	8	8	8	8

DIMENSIONS



KT	A	B	C	D	E	F	G	H	I *
40-20-4	398	198	220	420	440	240	502	32	530
50-25-4/6	498	248	270	520	540	290	532	68	610
50-30-4/6	498	298	320	520	540	340	562	68	695
60-30-4/6	598	298	320	620	640	340	642	89	715
60-35-4/6	598	348	370	620	640	390	717	92	805
70-40-4	698	398	420	720	740	440	787	92	900
70-40-6/8	698	398	420	720	740	440	787	92	900
80-50-4/6/8	798	497	520	820	840	540	880	113	1090
100-50-6/8	998	497	520	1020	1040	540	980	113	1140

* Dimension with fully open hatch



KT (I)	A	B	C	D	E	F
50-30-4	562	561	361	-	396	385.5
60-30-4	642	661	361	383.7	418.5	408
60-30-6	642	661	361	383.7	399	388.5
60-35	717	661	411	433.7	473.5	463
70-40-4	787	761	461	470.3	523.5	513
70-40-6	787	761	461	470.3	506.5	496
80-50	880	861	560	587.3	625	614.5
100-50	980	1061	560	588.8	626.5	616

VENTILATION ACCESSORIES



DS p. 363



VK p. 368



LDR p. 358



FFK p. 355



RB p. 359



VBR p. 365

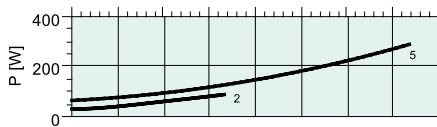
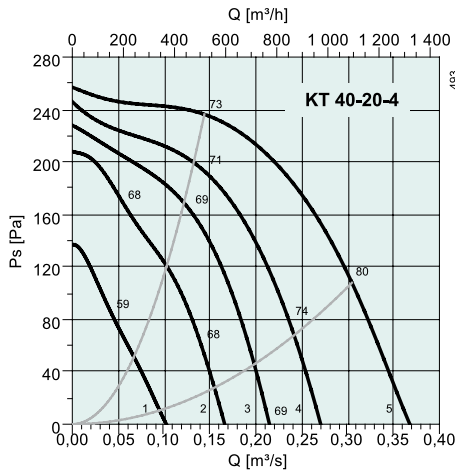
Rectangular duct fans

KT		70-40-4	70-40-6	70-40-8	80-50-4	80-50-6	80-50-8	100-50-6	100-50-8
Art no. KT		1506	1504	1502	1513	1511	1509	1516	1514
Art no. KT(I)		68576	68577	68578	-	-	-	68582	68583
Voltage/Frequency	V/50 Hz	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~
Power	W	4186	1628	951	5639	2799	1167	4450	2287
Current	A	7.15	3.02	1.89	9.22	5.12	2.44	7.82	4.68
Max air flow	m ³ /s	1.84	1.46	1.28	2.15	2.1	1.52	2.73	2.30
R.p.m.	min-1	1250	805	661	1266	828	548	794	614
Max temp. of transported air	°C	48.5	60.8	68.7	41	70	62	43	70
" when speed controlled	°C	48.5	60.8	68.7	41	70	62	43	70
Sound pressure level at 3 m	dB(A)	66/60	57/51	51/50	67	59	59	62/61	58/58
Weight KT/KT(I)	kg	57.7/65	46.7/72	45.5/65	73.5	67.5	60.5	83.5/100	81.5/100
Insulation class, motor		F	F	F	F	F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Motor protection		STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16
Speed control, five-step	Transformer	RTRD 14	RTRD 4	RTRD 4	RTRD 14	RTRD 7	RTRD 4	RTRD 14	RTRD 7
Speed control, five step high/low	Transformer	-	RTRDU 4	RTRDU 4	-	RTRDU 7	RTRDU 4	-	RTRDU 7
Wiring diagram p. 391-400		8	8	8	8	8	8	8	8

Rectangular duct fans

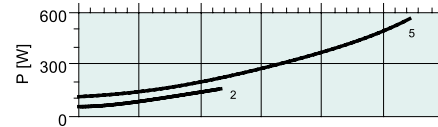
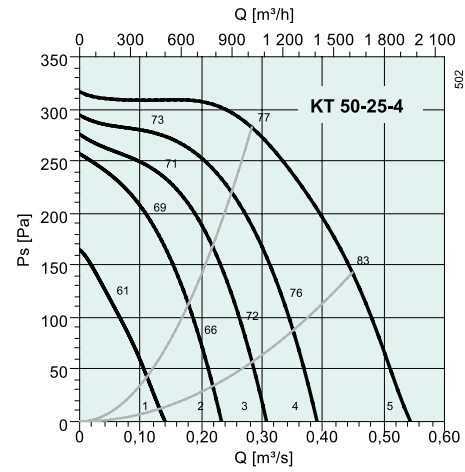
PERFORMANCE

Rectangular duct fans



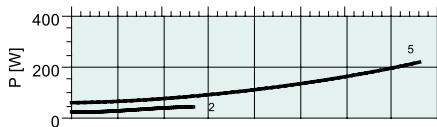
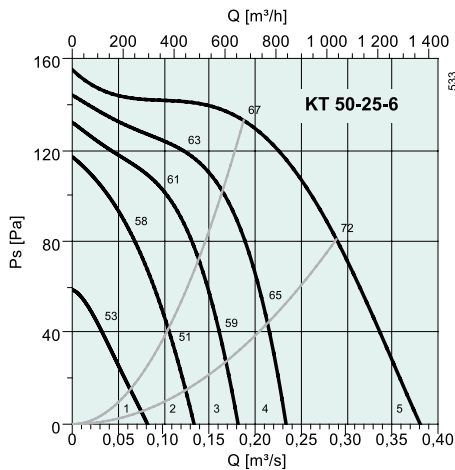
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	70	56	67	63	59	56	55	53	46
L _{WA} Outlet	72	53	63	67	63	65	62	59	53
L _{WA} Surrounding	59	34	46	57	51	49	44	40	34
L _{WA} Surr. KT(I)	56	28	42	54	48	43	43	39	31
With LDR 40-20									
L _{WA} Inlet	64	56	62	54	44	33	39	41	36
L _{WA} Outlet	62	53	58	58	48	42	46	47	43

Measurement point: 0,144 m³/s; 236 Pa



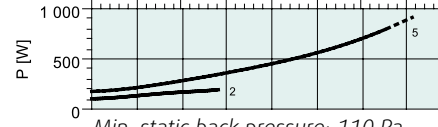
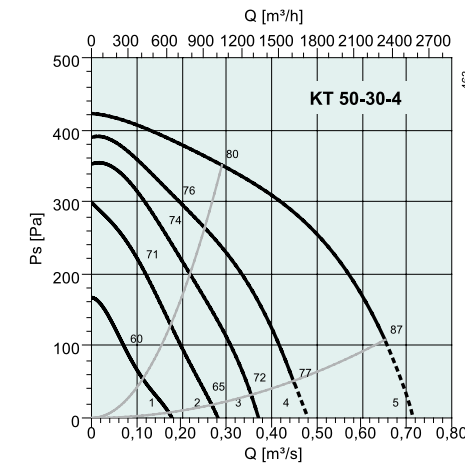
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	72	60	67	64	59	64	64	62	58
L _{WA} Outlet	76	56	63	64	67	71	69	67	65
L _{WA} Surrounding	62	39	50	53	54	56	52	50	55
L _{WA} Surr. KT(I)	57	32	46	49	47	50	51	48	42
With LDR 50-25									
L _{WA} Inlet	58	53	53	52	38	40	42	44	41
L _{WA} Outlet	61	56	53	49	42	46	49	52	53

Measurement point: 0,283 m³/s; 282 Pa



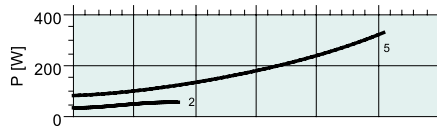
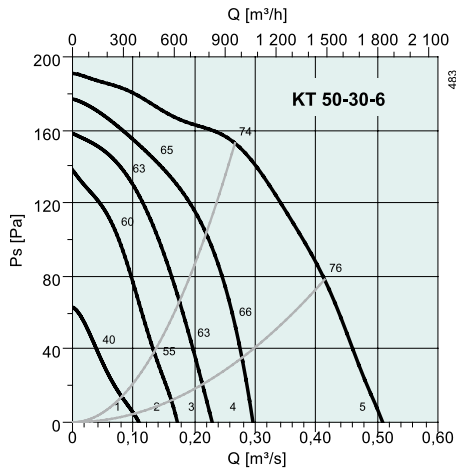
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	63	52	59	55	52	53	53	50	44
L _{WA} Outlet	66	50	55	55	60	59	57	54	48
L _{WA} Surrounding	51	33	41	46	45	43	37	33	30
With LDR 50-25									
L _{WA} Inlet	54	52	49	40	27	28	33	35	32
L _{WA} Outlet	52	50	45	40	35	34	37	39	36

Measurement point: 0,188 m³/s; 133 Pa



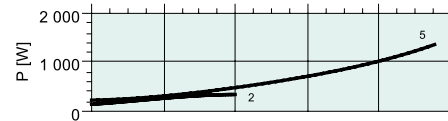
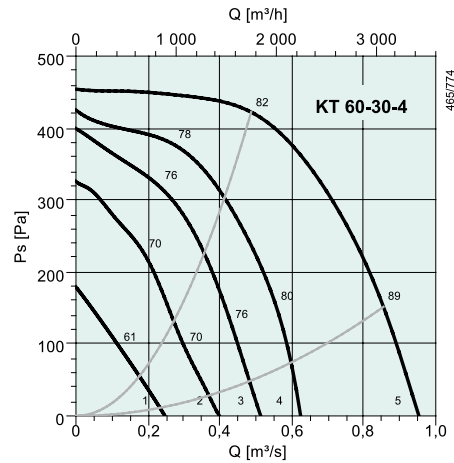
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	75	66	70	64	63	67	67	66	62
L _{WA} Outlet	79	62	68	67	70	74	72	71	66
L _{WA} Surrounding	64	45	55	59	55	58	54	49	48
L _{WA} Surr. KT(I)	60	36	53	53	50	52	51	50	44
With LDR 50-30									
L _{WA} Inlet	68	66	62	49	43	36	50	52	51
L _{WA} Outlet	66	62	60	52	50	43	55	57	55

Measurement point: 0,29 m³/s; 351 Pa



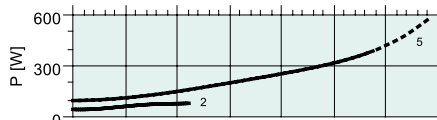
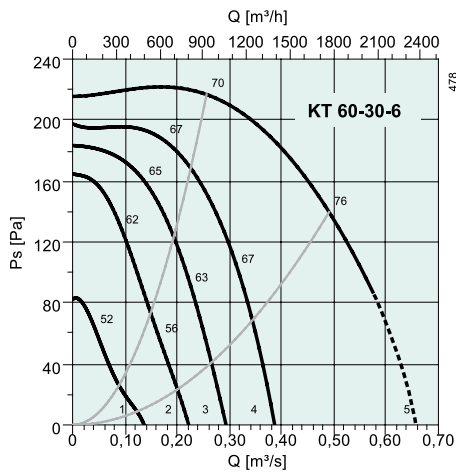
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	66	54	60	55	56	58	58	56	48
L _{WA} Outlet	73	53	60	59	68	67	64	63	55
L _{WA} Surrounding	58	30	48	52	53	50	46	44	37
L _{WA} Surr. KT(I)	55	25	46	47	51	46	45	43	36
With LDR 50-30									
L _{WA} Inlet	57	54	52	40	36	27	41	42	37
L _{WA} Outlet	58	53	52	44	48	36	47	49	44

Measurement point: 0,267 m³/s; 153 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	78	71	71	67	66	71	71	67	63
L _{WA} Outlet	81	59	70	68	73	76	73	73	68
L _{WA} Surrounding	65	39	59	60	59	57	54	52	48
L _{WA} Surr. KT(I)	61	33	55	52	55	54	53	50	43
With LDR 60-30									
L _{WA} Inlet	72	71	63	52	46	40	54	53	52
L _{WA} Outlet	67	59	62	53	53	45	56	59	57

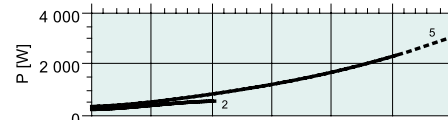
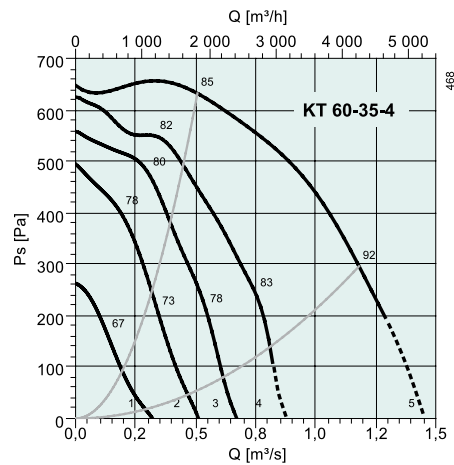
Measurement point: 0,487 m³/s; 422 Pa



Min. static back pressure: 75 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	66	59	60	55	55	58	56	54	47
L _{WA} Outlet	69	53	62	58	62	62	60	59	51
L _{WA} Surrounding	55	35	49	50	48	45	42	40	35
L _{WA} Surr. KT(I)	50	25	44	44	45	42	39	35	29
With LDR 60-30									
L _{WA} Inlet	60	59	52	40	35	27	39	40	36
L _{WA} Outlet	57	53	54	43	42	31	43	45	40

Measurement point: 0,256 m³/s; 217 Pa



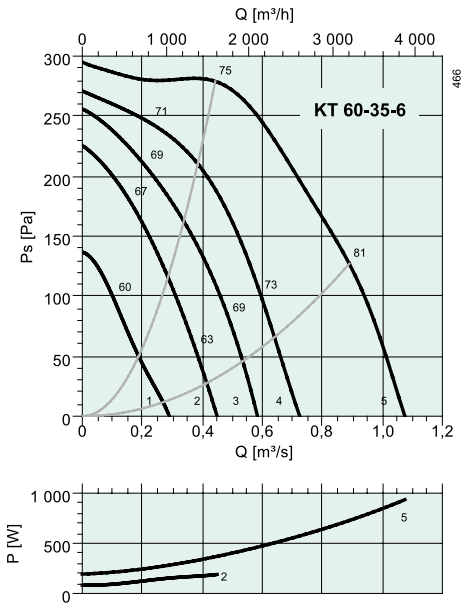
Min. static back pressure: 180 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	80	72	75	67	68	73	72	69	65
L _{WA} Outlet	84	67	73	72	76	79	77	75	70
L _{WA} Surrounding	68	52	62	63	59	60	55	52	48
L _{WA} Surr. KT(I)	65	44	57	57	57	59	56	52	47
With LDR 60-35									
L _{WA} Inlet	74	72	68	54	51	55	59	59	57
L _{WA} Outlet	73	67	66	59	59	61	64	65	62

Measurement point: 0,508 m³/s; 632 Pa

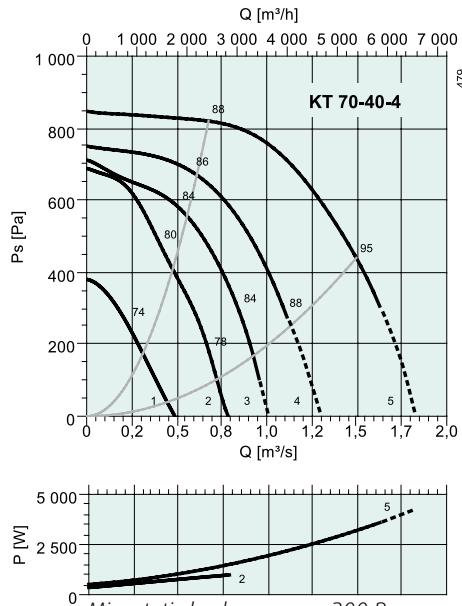
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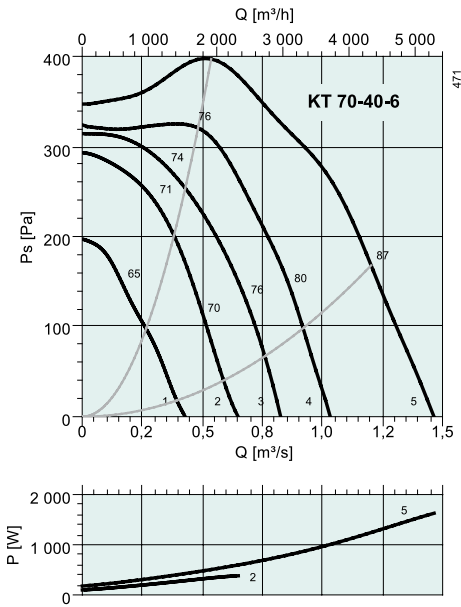
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	70	65	65	57	60	61	60	58	54
L _{wA} Outlet	73	58	63	62	68	67	65	64	58
L _{wA} Surrounding	59	41	52	56	52	50	46	45	41
L _{wA} Surr. KT(I)	55	34	47	48	47	48	47	43	37
With LDR 60-35									
L _{wA} Inlet	66	65	58	44	43	43	47	48	46
L _{wA} Outlet	63	58	56	49	51	49	52	54	50

Measurement point: 0,443 m³/s; 279 Pa



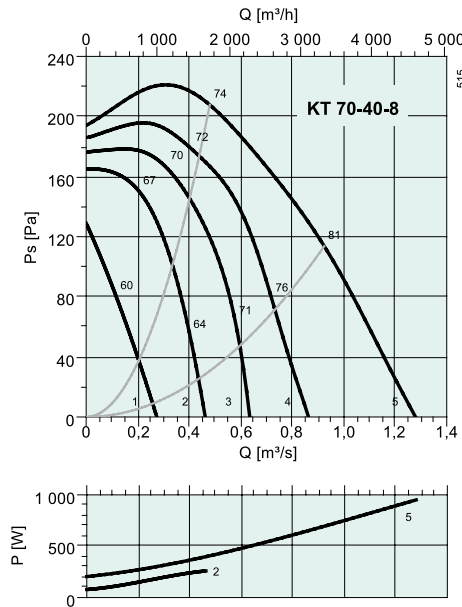
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	84	80	77	70	69	76	74	71	68
L _{wA} Outlet	86	73	75	75	79	81	79	77	72
L _{wA} Surrounding	73	55	64	67	65	68	63	63	59
L _{wA} Surr. KT(I)	67	52	60	61	58	59	58	53	48
With LDR 70-40									
L _{wA} Inlet	81	80	70	59	55	62	64	63	62
L _{wA} Outlet	78	73	68	64	65	67	69	69	66

Measurement point: 0,677 m³/s; 820 Pa



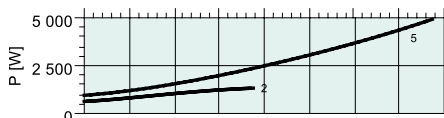
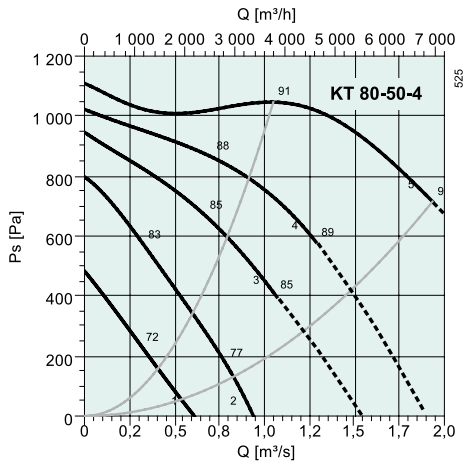
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	72	67	64	60	63	65	63	61	55
L _{wA} Outlet	76	65	66	66	71	70	68	67	60
L _{wA} Surrounding	64	46	57	57	60	54	49	46	42
L _{wA} Surr. KT(I)	58	44	50	52	54	48	48	43	39
With LDR 70-40									
L _{wA} Inlet	68	67	57	49	49	51	53	53	49
L _{wA} Outlet	68	65	59	55	57	56	58	59	54

Measurement point: 0,537 m³/s; 397 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	69	62	60	59	59	61	60	59	52
L _{wA} Outlet	73	56	59	63	68	66	65	64	56
L _{wA} Surrounding	58	35	49	52	53	51	45	42	37
L _{wA} Surr. KT(I)	57	35	48	50	54	49	47	44	41
With LDR 70-40									
L _{wA} Inlet	63	62	53	48	45	47	50	51	46
L _{wA} Outlet	63	56	52	52	54	52	55	56	50

Measurement point: 0,48 m³/s; 208 Pa



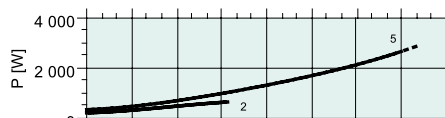
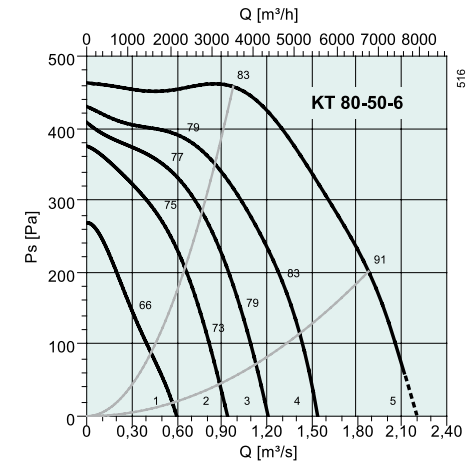
Min. static back pressure: 720 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	82	71	74	74	71	76	75	71	67
L _{WA} Outlet	90	72	77	77	82	86	84	80	76
L _{WA} Surrounding	74	61	68	67	66	69	64	60	58

With LDR 80-50

L _{WA} Inlet	76	71	68	66	61	65	67	65	64
L _{WA} Outlet	82	72	71	69	72	75	76	74	73

Measurement point: 1,05 m³/s; 1046 Pa



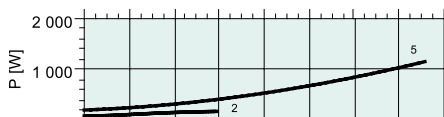
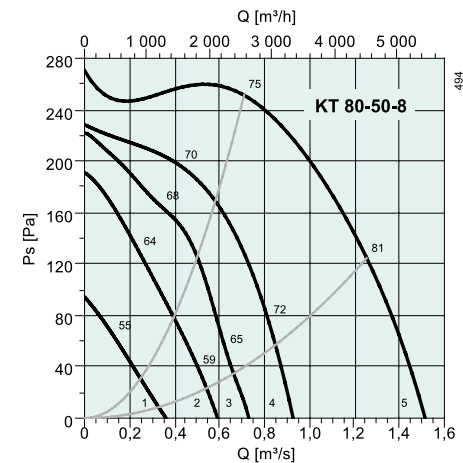
Min. static back pressure: 70 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	77	64	66	65	69	72	71	67	62
L _{WA} Outlet	82	62	66	69	77	76	75	72	66
L _{WA} Surrounding	66	51	57	58	62	60	55	51	50

With LDR 80-50

L _{WA} Inlet	70	64	60	57	59	61	63	61	59
L _{WA} Outlet	74	62	60	61	67	65	67	66	63

Measurement point: 0,976 m³/s; 458 Pa

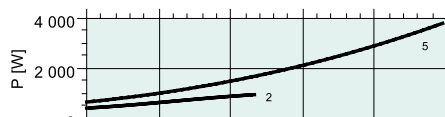
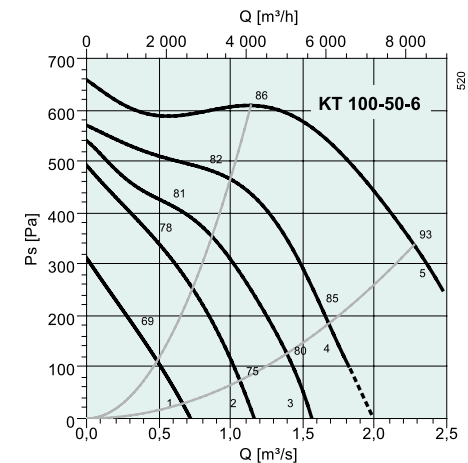


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	68	59	59	59	59	62	62	58	50
L _{WA} Outlet	73	55	59	64	68	66	66	64	54
L _{WA} Surrounding	66	50	51	57	54	53	54	57	63

With LDR 100-50

L _{WA} Inlet	63	59	53	51	49	51	54	52	47
L _{WA} Outlet	65	55	53	56	58	55	58	58	51

Measurement point: 0,709 m³/s; 251 Pa



Min. static back pressure: 250 Pa

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	79	71	68	65	72	72	72	69	65
L _{WA} Outlet	84	69	71	72	78	78	77	74	69
L _{WA} Surrounding	69	59	63	61	63	61	58	53	53

L_{WA} Surr. KT(l)

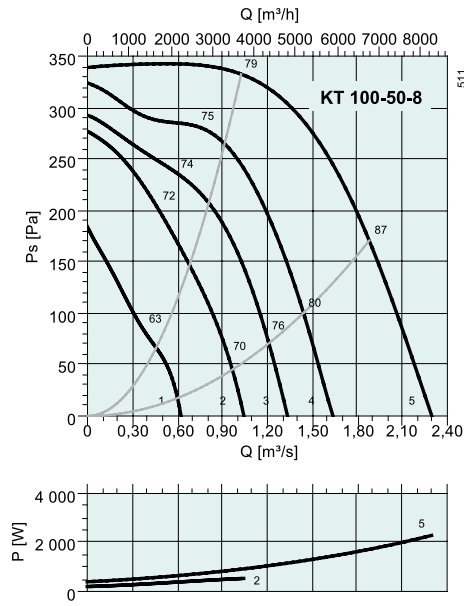
L _{WA} Surr. KT(l)	68	55	61	60	61	60	61	53	47
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With LDR 100-50

L _{WA} Inlet	74	71	62	57	62	61	64	63	62
L _{WA} Outlet	71	69	65	64	68	67	69	68	66

Measurement point: 1,14 m³/s; 608 Pa

Rectangular duct fans



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	73	64	61	61	66	65	66	63	56
L_{wA} Outlet	78	62	63	68	73	70	71	68	61
L_{wA} Surrounding	65	52	55	59	60	57	56	54	46
L_{wA} Surr. KT(I)	65	47	53	59	58	56	59	54	41
With LDR 100-50									
L_{wA} Inlet	67	64	55	53	56	54	58	57	53
L_{wA} Outlet	70	62	57	60	63	59	63	62	58

Measurement point: 0,17 m³/s; 211 Pa